

Department of Mechanical and Materials Engineering

Mechanical Engineering Program

Possible 4 Year Course Plan

FRESHMAN			SOPHOMORE			JUNIOR			SENIOR		
FALL	WINTER	SPRING	FALL	WINTER	SPRING	FALL	WINTER	SPRING	FALL	WINTER	SPRING
Math / Science Requirements											
CALCULUS		LIN	CALC	DIF			STAT				
MTH	MTH	ALG	IV	EQ I			451	CM			
251	252	MTH	MTH	MTH							
261	261	254	256								
CHEM	CHEM	PHYSICS									
CH	CH	PH	PH	PH							
221	222	221	222	223							
CH 227	CH 228	PH 214	PH 215	PH216							
Engineering / Computer Science Requirements											
ENGR		ENGR	STATICS	STREN	DYNAM	ENGR	THERM	HEAT	DES	DES PROJECT	
PROB		GRAPH	EAS	OF MAT	-ICS	THERMO	FLUIDS	TRANS	ME 491	I	II
SOLV		EAS 115	EAS	EAS	EAS	ME 321	ME 322	ME 323	DOE	ME	ME
EAS 101			211	212	215				ME 488	492	493
			PROP	ELECT	MFG	FLUID	MECH	DESIGN	SYSTS	ENGR	Approved
			OF MAT	CIRC	PROC	MECH	ANAL	MACH	DESIGN	MEAS	ME
			EAS	ECE	ME	EAS 361	ME 313	ME 314	ME 420	ME	Elective
			213	241 &	241				ME 437	411	
				241L		NUM	SYS DY	ENGR	Approved	Approved	Approved
						METH	MODEL	METAL	ME	ME	ME
						ME 352	ME 351	ME 372	Elective	Elective	Elective
								TECH			
								RPT			
								WR 327			
General Education Requirements (see reverse side)											
FRESHMAN INQUIRY			SOPHOMORE INQUIRY			PRIV	UNST				UNST
UNST	UNST	UNST	UNST	UNST	UNST	PUBLIC	UP DIV				UP DIV
101	102	103	299	299	299	INVEST	CLUST				CLUST
						EC314U					

EXPLANATION

CREDIT HOURS

1	ME 491 & 492 FULFILL UNST CAPSTONE	STUDENTS MAY SUBSTITUTE	2008-2009
2	STUDENTS MUST TAKE EITHER ME 420 OR ME 437	PHYSICS 211-213 FOR PHYSICS 221-223	
3	SHADED AREA = CORE REQUIREMENTS	REFER TO BACK PAGE FOR GEN. ED. REQ	
4			

Undergraduate Engineering Programs

General Education Requirements

There are **two** (2) separate sets of general education requirements:

1. University Requirements
2. Maseeh College of Engineering and Computer Science (MCECS) Requirements

You must satisfy **BOTH** sets of requirements.

University Requirements

- A. Freshman entering with 29 or fewer prior university/college credits must complete all University Studies Requirements, including freshman and sophomore inquiry sequences and upper division cluster courses.
- B. Continuing and transfer students with 30-44 prior university/college credits must complete the following program:
 - Transfer Transition Course UnSt 201-210
 - University Studies beginning with Sophomore Inquiry
- C. Continuing and transfer students with 45-89 prior university/college credits must complete the following program:
 - Sophomore Inquiry: 45-59 credits, three courses; 60-74 credits, two courses; 75-89 credits, one course. The upper division cluster must be linked with one of these Sophomore Inquiry courses.
- D. Continuing and transfer students with 90 or more prior university/college credits must complete the following program:
 - University Studies requirements beginning with Upper Division Cluster courses. It is strongly recommended that students also take the single Sophomore Inquiry course that is linked to the chosen Upper Division Cluster.
- E. Bachelor of Science degree requires a minimum of 12 credits of Arts & Letters or Social Science distribution areas. See the *PSU Bulletin* for complete University Requirements detail for BS degrees.

Maseeh College of Engineering and Computer Science General Education Requirements

- a) Freshmen admitted beginning with the 1994-95 academic year satisfy the PSU general education requirement with the University Studies Program.
- b) Transfer students must have a minimum of 39 credits of University Studies courses and/or arts and letters/social science courses at their previous college or at PSU prior to graduation. 12 of these credits are upper division cluster courses that must be taken at PSU.
- c) Transfer students who have not taken Freshman Inquiry must have completed SP 100 (or equivalent) and WR 121 as part of the 39 credits of Liberal Arts/Social Sciences.
- d) All engineering students must complete EC 314U Public and Private Investment. Students may use EC 314U as a University Studies course in the Community Studies Cluster, the Knowledge, Rationality, and Understanding Cluster, or the Culture of Professions Cluster.

Students should consult with their academic advisor or department chair regarding these requirements.

Last updated: 4/21/2008